January 29, 1993 Issue 673

DXpedition News

Baker, Howland Islands - KH1 **AH1A** is the callsign of the 1993 Howland Island operation. QSL via the Mile High DX Association, P. O. Box 1, Franktown CO 80116, with SASE and 'green stamps appreciated.'

Revillagigedo - XF4 Seven Mexican amateurs, led by Hector Espinosa Flores XE1BEF will operate from Clarion Island (NA-115) as **XFØC** Feb. 18-March 5, on all bands and modes, including VHF, SSTV, satellite, etc. QSL to P. O. Box 231, Colima 2800 Mexico, or via XE1BEF's *Callbook* address, via registered mail.

Pitcairn Island - VR6 **VR6BB** has been very active. Try 3504 kHz at 0450Z and 1040Z, 7005 07 and 1230Z, 10102 02Z, 14025 03Z, 12Z, 18075 00Z, 21025 19-0200Z, and 28024 2100Z. **VR6JJ** has been on 18115 kHz at 2000Z, 24935 kHz at 1900Z, and 28495 kHz at 0200Z. Also, see **RTTY**. QSL via JF2KOZ.

Edited by Chod Harris VP2ML

The DX Bulletin

America's Premier Weekly Amateur Radio Publication

Cook Islands - ZK1 Six German amateurs will be active Feb. 6-15, on 3505, 7005, 10105, 14025, 18080, 21025, 24895, and 28025 khz on CW, and 3795, 7045, 14195, 18130, 21295, 24945, and 28495 kHz on SSB. QSL to DL7UUO (ex-Y23UO). Island and callsigns to be used not mentioned. (DXNS.) They will then operate from one of the **Somoa** Islands (5W or KH8) Feb. 17-28.

Central Kiribati - T31 Karl Hille DL1VU has arrived on Canton island (OC-043) and is active as **T31AF**. First spots show him on 14026 kHz at 0640Z, 21027 kHz at 22-0200Z, and 18070± kHz at 19-2000Z. QSL via Rainer Kuehnberger DL2MDZ, Friedrickstr. 10, D-8662 Helbrechts, Germany. Karl will QSL every contact via the bureau system when he returns to Germany. For a direct response, please include US$2.

Shortly Noted

▪ **9F2CW** Rudi Klos DK7PE says he is returning to Addis Ababa, Ethiopia, Jan. 30. Rudi typically operates for about one week, favoring CW. QSL via home address: Kl. Jntergasse 25, D-6501 Nieder-Olm, Germany.

▪ **TT8OBO**: Ken Winston WA8OBO returns to Chad for about 6 weeks, beginning about March 15. SSB only. QSL via home callsign.

▪ **SØ1A** and **SØRASD** will be active Feb. 24-March 6, including 6 meters on 50110 kHz. QSL to EA2JG. (OPDX.)

▪ **VP5F** will be a single-op, all-band entry in the ARRL CW DX test. Jeff Steinman KRØY will also be active outside the test on 160, 80, and 40 meters, Feb. 17-23. QSL via home call.

▪ **JQ1NGT/JD1** will be active Feb. 11-14, on 40-10 meters, including the new bands. QSL home call. [Sorry, I can't read Kanji well enough to say which JD1! -ed.]

▪ **V51AT** will be active in the CQWW 160-Meter CW test this weekend; QSL to DF5JQ.

▪ **ZD8VJ** is Andy Chadwick G4ZVJ, for one year, beginning this week. QSL to his home call. (DXNS.)

▪ **ZXØECF** is active from Brazil's Comandante Ferraz base on King George island in the South Shetlands, for two months. (DXNS.)

▪ **TI9JJP** will be active from Cocos Island (NA-012) Feb. 14-24, with 3 operators, says TI2JJP.

▪ **7S4SKI** is a special-event station marking the Nordic World Ski Championship in northern Sweden Feb. 18-28. Try 3530, 7030, 14030, 21030, and 28030 kHz on CW, and 3770, 7070, 14270, 21370, and 28470 kHz on SSB. QSL to SM4EAC.

▪ **SSB Net** check-ins: **14160** kHz; (21Z) 3B8FU 9X5AB FJ5AB T5KE; **14227**: (11,22Z) HL9HH ZP5CGL TU2WE; **21335**: (14Z) FR5ZN.

▪ **RTTY**: **VR6JJ** has been very active on 21086 kHz at 18-0100Z, and 14088 1630Z. **KF6BL/T5** has been noted on 14086 kHz, listening 3-5 kHz **down**, at 1500Z. Spots: **XT2BW** 14083 0700Z; **7Q7XX** 14092 1550Z; **S79PDL** 14085 1825Z; **S21A** 14083 1400Z; **TY1PS** 21088 0000Z; **C9RTC** 28084 0820Z; **HV3SJ** 21091 1700Z; **5X5MB** 14082 1820Z.

▪ **Islands On The Air**: **L1DSR** will operate from **Bermejo Island (SA-021)** April 2-4, 10 khz up on CW, and 3690, 7090, 14190, 21290, and 28590 kHz on SSB. QSL via Radio Club del Sur LW3DSR, Box 265, 7600 Mar Del Plata, Argentina. Art Phillips NN7A and Mike Sharp NG7S will operate CW as **V31JZ** from Southwater Cay, a New One for IOTA, Feb. 22-24. Before the IOTA operation, they will be active as **V31RL** from the Belize mainland, including the ARRL CW DX test. QSL V31JZ via NN7A, Box 201, Flagstaff AZ 86002, and V31RL via NG7S, Box 7, Flagstaff AZ 86002. **HR6/NN7A** will operate from Guanaja Island in the Bahia group (NA-057) Feb. 14-17, CW only. QSL via NN7A.

Propagation

Forecast and Historical Data

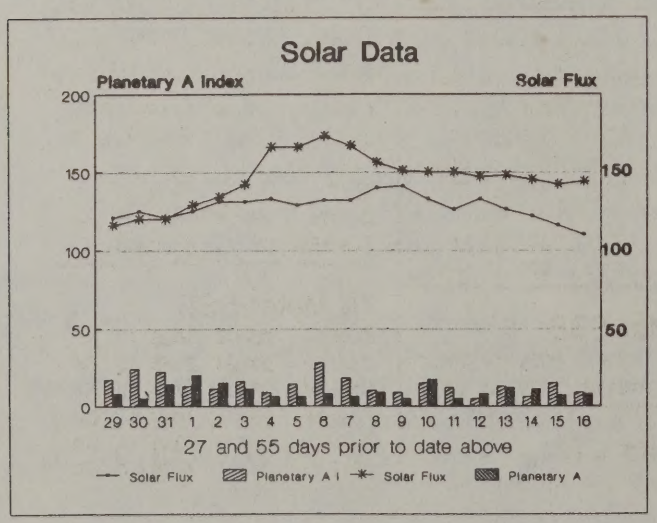
Day	Forecast	27 Days Before				55 Days Before			
January 1993		Date	Flux	A	K	Date	Flux	A	K
29	High Normal	1/2	121	12/17	3	12/05	116	05/08	0
30	Low Normal	1/3	125	24/24	3	12/06	120	02/05	1
31	Low Normal	1/4	121	18/22	3	12/07	120	11/14	2
February 1993									
1	High Normal	1/5	125	14/13	2	12/08	129	18/20	3
2	High Normal	1/6	131	11/11	2	12/09	134	12/15	2
3	High Normal	1/7	131	17/16	3	12/10	142	09/11	3
4	Above Normal	1/8	133	07/09	2	12/11	166	04/06	2
5	High Normal	1/9	129	13/14	2	12/12	166	08/06	2
6	Low Normal	1/10	132	24/28	2	12/13	173	06/08	1
7	Low Normal	1/11	132	15/18	3	12/14	167	10/06	2
8	Above Normal	1/12	140	06/10	1	12/15	156	10/09	2
9	Above Normal	1/13	141	08/09	2	12/16	151	05/05	1
10	High Normal	1/14	133	15/16	3	12/17	150	16/17	4
11	High Normal	1/15	126	12/12	1	12/18	150	04/05	2
12	Above Normal	1/16	133	05/06	1	12/19	147	07/08	3
13	High Normal	1/17	126	13/09	1	12/20	148	11/12	3
14	High Normal	1/18	122	06/08	2	12/21	145	07/11	3

Propagation Watch

Solar activity has dropped significantly, down to levels more typical of this part of the sunspot cycle than the active levels of the past few months. Fortunately for DXers, there have been very few solar flares to disrupt the bands, and conditions have been generally good.

The drop in solar activity (and flux) has reduced the frequency, length, and strength of openings on 12 and 10 meters. However, 15 meters remains open to some part of the world most daylight hours, and 17 meters is also open most of the day. 20 meters is the best long-haul band, with good openings on both the long and short paths, especially at local sunrise and sunset. DXing on the lower bands is also productive, with 30 and 40 meters being especially good at night.

Occasional increases in geomagnetic activity have hurt paths that pass through high latitudes. Signal-to-noise ratios have been lowered, and multi-pathing makes copy difficult. However, skew paths around the auroral disturbances are good places to look for rarer DX. Point your beam to either side of the north and south poles to dig out some of the choice DX among the louder, garden-variety stations.



Dayton DX Dinner

The eighth annual DX Dinner, sponsored by the Southwest Ohio DX Association, will be held on Friday, April 23, 1993, at the Stouffers Center Plaza Hotel in Dayton. Cash bar begins at 6:30pm, doors open at 6:45, and dinner is at 7:15pm. Tickets are $26.50, in advance only. This year, to prevent the crush and race for tables, seats will be assigned in order of requests received. If you desire group seating, please request tickets as a group. First envelopes will be opened on Feb. 13. Include an SASE with your check made out to the SWODXA, and send both to SWODXA, c/o Scott Lehman N9AG, P. O. Box 803, Greenville OH 45331. Keynote speaker has not yet been announced, but this dinner is one of the DX highlights of the Dayton Hamvention experience!

5BDXCC Start Date Changed

The ARRL DXCC desk announced Jan. 22, 1993, that the start date for 5-Band DXCC has been changed from January 1, 1969 to November 15, 1945. This change is effective immediately.

ARRL management made this decision, in consultation with the Membership Services Committee of the ARRL Board of Directors, in order to simplify the program. Now that all DXCC band awards have the same requirements, anyone who has a 10-, 40-, or 80-meter DXCC will automatically be granted credit toward 5-band DXCC. Likewise a 160-, 6-, or 2-meter DXCC is sufficient for a band endorsement to the 5-band DXCC certificate.

A change in the start date of CW DXCC is not planned for the foreseeable future.

Amateur Radio In Ethiopia

by Rudi Klos DK7PE/9F2CW

For 17 years amateur radio was not allowed in this country and **ET3PG**, the club station of the police, was the only licensed station.

Meanwhile (Jan. 1993) amateur radio licenses have been granted to five foreign radio amateurs and the reissuing for Ethiopians is to be expected at any moment now.

During my stay from Dec. 22-31, 1992, I regularly met Mr. Ghetnet and Mr. Bekele, the two officials of the licensing authority. Together with Admase ET3AR, who was the first Ethiopian radio amateur back in 1942, Rolf HB9CVB, and Sid G4CTQ, we held an amateur radio meeting and founded the Ethiopian Amateur Radio Society (EARS) as had been planned for some time.

As the training of newcomers will be one of the goals of the new radio club, Sid (future ET3SID) offered to organize a course in amateur radio. No doubt, they won't be short of participants and both engineers working for the licensing authority as well as a number of university students have already applied for the course.

By the support of various national amateur radio associations a sufficient stock of instructing material is available, thus making the course feasible in due course. But they haven't got a receiver or transceiver to demonstrate practical amateur radio. That's where individual hams or radio clubs might helpfully step in. With their kind help we should soon be able to contact native radio amateurs from Ethiopia as we used to twenty years ago.

B • A • N • D • P • A • S • S

S	M	T	W	T	F	S
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6
7	8	9	10	11	12	13

*Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet. All "portable" calls listed with country of operation first, regardless of format used on the air.*

RTTY

5R8DG	14081	1654	14	ID
A45ZX	21088	1414	20	PA
CN8NP	21088	1730	17	OH
DU1WP	21089	0036	17	FL
FM5DN	14087	2313	21	PA
FO4OD	14081	0420	17	CA
HP1AC	14082	2345	18	PA
HV3SJ	21080	1520	17	OH
OD5PL	21087	1530	17	OH
S21A	14083	1350	16	FL
UZØLWC	21082	0040	20	CA
UZØLWC	14084	2345	21	PA
VP8AWU	18086	0158	15	ID
VP8AWU	14081	0212	14	ID
ZA1AA	21093	1556	23	FL
ZP2AC	14085	0135	21	CA

160 Meters

9K2MU	1833	0116	11	MA
9K2ZZ	1832	0010	22	FL
GD4BEG	1835	0618	17	NH

80 Meters

3C1EA	3509	2236	16	MA
9K2MU	3509	0025	16	NH
9M2AX *	3504	2157	18	MA
EA6NB	3507	0458	23	FL
EA8AF	3501	2312	23	FL
KH6CF	3503	1100	23	FL
LU5DYV	3509	0050	12	NH
OA4/ LA7JO	3505	0628	19	CA
OD5/ SP1MHV	3510	2259	18	FL
P29DK	3503	1250	19	MN
PZ1AP	3506	0315	17	FL
S59KAB	3505	0430	15	KS
UC2WE	3511	0046	22	FL
UL7FEC	3505	0229	18	MA
VK6HD	3500	2130	11	NH
VK6WJ	3505	1130	13	NH
VP2MLD	3510	0110	12	NH
VP5P	3517	2347	16	VA
XQØYAF	3502	1200	17	NH
YB6AVE *	3506	2210	18	MA
ZL3BSH	3508	1205	14	NH

75 Meters

9V1XQ *	3797	2227	16	MA
JA6XMM *	3797	2220	16	MA
OA4/ LA7JO	3795	0606	19	CA
VK6LK *	3797	2127	15	MA

40 Meters

3B8CF	7003	0217	12	VA
4X/ S59PR *	7006	1459	14	ID
5B4ADA *	7009	1505	17	CA
7Q7XX	7007	0053	15	ID
9H1EL	7002	2305	21	FL
9K2ZZ	7005	0125	15	MA
9K2ZZ *	7003	1443	14	ID
9V1ZE	7001	1110	23	FL
BV2TA	7003	1154	21	FL
BV4CT	7010	1430	18	CA
C9RJJ	7003	0245	14	OH
CE8ABF	7061	0310	15	CA
CN8CU	7006	2348	22	FL
EA6EJ	7002	0040	18	FL
EA6NB	7004	0450	19	UT
HFØPOL	7014	0330	15	KS
HJØVGJ	7008	0230	11	CA
HSØZAR	7008	1209	17	VA
HS1CDX	7004	1331	16	AL
J28BS	7000	2328	22	FL
JT1BR	7012	1225	14	CA
JT1CS	7005	1227	11	AL
JW5NM	7005	0822	14	OR
OA4/ LA7JO	7008	0542	12	MA
PZ1DY	7006	0539	14	UT
S21ZG	7013	1210	14	FL
S21ZG *	7008	0110	15	CA
SU1SR	7001	1520	16	CA
T77F	7009	2358	16	MA
TL8NE	7010	0535	16	KS
TR8NSY	7005	0248	12	IL
VQ9AC *	7012	1527	14	ID
YN/ SMØOIG	7010	1155	15	VA
	7014	2312	21	FL
Z21HQ	7003	2221	15	VA
ZA1J	7010	0410	16	CA

30 Meters

3B8CF	10105	0323	18	PA
4L1AB	10101	2210	23	FL
4X4VF	10101	2040	20	PA
7P8SR	10109	2222	17	PA
A71AL/ SP5EXA	10103	1848	20	PA
EA6ZY	10103	2242	18	FL
HFØPOL	10100	0524	15	NY
HFØPOL	10103	2250	16	NH
OM3CQR	10103	0022	22	PA
PZ1DV	10103	2230	12	NH
TA2BK	10103	2205	18	FL
TF3CW	10100	2114	17	FL
TF3EJ	10104	0013	20	FL
VP2V/ W2GUP	10102	0003	19	PA
ZS6QU	10105	2140	16	GA

20 Meter CW

3Y2GV	14014	2140	23	FL
4F2IR	14023	1214	17	MA
4K2MAL	14011	2305	14	MI
4R1AR	14003	0130	17	MI
9J2BO	14025	0453	14	SC
9K2MU	14018	0355	14	KS
9K2ZZ *	14003	1532	14	ID
A22MN	14028	2157	17	CA
BV2TA	14027	0320	17	UT
BV4JB	14034	0100	16	NY
C9RJJ	14014	1945	11	NH
FR5BT	14010	1800	14	SC
FS4PL	14023	2203	16	GA
HFØPOL	14007	0100	13	UT
HSØZAR	14021	2120	17	GA
J28BS *	14014	1516	13	CO
JT1BR	14021	0130	17	NY
JWØF	14025	0015	18	NY
JX7DFA	14010	0105	17	CA
JX7DFA	14003	1020	14	NH
OX3MZ	14021	2230	17	FL
PJ9JT	14027	2350	12	NH
PZ1DV	14017	0349	19	UT
RI7A *	14005	0231	17	OR
RM8MW	14024	0021	12	NJ
SU1SR	14026	1745	16	CA
T77C	14022	1655	15	MI
TF3AW	14026	1502	14	CO
UAØYO	14010	0310	14	OR
UI8BDK	14028	1254	16	MA
UJ8JA	14007	0427	14	CO
UJ8JA	14007	1253	15	VA
VP8VN	14003	2334	15	ID
VQ9AC	14027	1215	17	NY
VQ9RB	14016	0225	17	CA
VU2IOC *	14016	1340	19	MI
VU2LB	14005	1410	18	MI
VU2ROI *	14014	1222	15	MA
XU5SE	14020	1615	14	ID

20 Meter SSB

3B8FU	14160	2240	18	CA
4S7/NZ9Z	14228	1925	13	NH
5T5SN	14210	2315	18	CA
9K2ZZ *	14223	1502	19	ID
JX3EX	14227	1915	18	CA
T5/KF6BL	14192	0045	18	CA
TA1BY	14183	1535	17	CA
TA5C *	14200	1517	15	CA
TZ6VV	14202	2304	15	NH
VP8CMP	14195	2359	16	IL
VU2DNL *	14177	1343	17	IL
VU2XY	14195	1255	13	NJ

17 Meter CW

4K1YAL	18080	1825	16	GA
5Z4FM	18080	1830	17	FL
7Q7CM	18075	2020	20	PA
7Q7XX	18070	1846	17	SC
A71AL/ SP5EXA	18081	1618	17	FL
LX1DA	18071	1307	17	FL
VK6RO	18076	1308	16	MA

17 Meter SSB

5Z4FM	18142	2030	12	MA
VR6JJ	18115	1952	18	CA

15 Meter CW

4N5JA	21008	1616	18	AZ
5Z4FM	21020	2049	16	SC
A22MN	21025	2020	16	CA
HJØVGJ	21026	2107	17	GA
OD5SK	21051	1528	17	IL
PZ1AV	21012	1512	13	MI
T31AF	21027	2247	21	FL
V51AT	21004	2030	18	CA
VP2V/ W2GUP	21032	1348	18	GA
VP8VN	21002	2310	13	FL
XQØYAF	21009	1630	14	VA
YN/ SMØOIG	21022	2350	12	CA
YN1CC	21019	2334	16	VA
Z21HQ	21015	1837	14	SC
ZA1M	21018	1420	16	GA
ZD7WW	21020	1230	18	MA

15 Meter SSB

5V7DP	21345	1825	16	GA
9X5JA	21325	1700	18	CA
A22JP	21318	1905	13	NH
EL2PP	21231	1701	14	NJ
OD5SK	21335	1500	16	FL
S92SS	21286	2110	16	CA
YI1BGD	21223	1514	14	NH
ZD7DP	21257	2145	12	CO
ZD7SM	21255	2052	12	CO

12 Meter CW

3B8CF	24899	1336	14	NH
7P8SR	24904	1512	17	FL
7Q7XX	24891	1440	16	GA
HFØPOL	24900	2159	16	NY
USØU	24896	1346	16	AL
VP8GAV	24892	1434	17	AL
VP9/ WA1AWJ	24896	2058	17	OR
ZD8LII	24896	1549	17	FL

12 Meter SSB

PJ8AD	24950	2027	16	MA
VR6JJ	24935	1937	18	CA
XQØX	24945	1645	17	FL

10 Meter CW

7Q7LA	28020	1520	12	NH
EA9UK	28035	1413	17	GA
OA4/ LA7JO	28017	1532	18	GA
T77C	28022	1449	18	GA
Z21FN	28026	1324	18	GA
ZC4ESB	28024	1430	16	GA

10 Meter SSB

7X4BL	28406	1628	13	NJ
C53HD	28404	2145	16	CA
CN8CH	28493	1717	13	NJ
EA9AM	28461	1640	16	CA
KH3AC	28476	2355	16	CA
V51ED	28404	1950	16	CA
ZD7CRC	28457	1710	17	CA

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Current and Future DXpeditions

(Changes and hot info in **boldface**.)

DXCC Country	Prefix	Callsign	Dates	Issue
Angola	**D2/**	**N6QHO**	**Jan. 13-Feb. 16**	**I671**
Antarctica	DL1KVC/P		14246 17-1900Z	I664
Ascension Island	**ZD8VJ**		**Now-1994**	**I673**
Baker, Howland	**KH1**	**AH1A**	**Now-Feb. 4**	**I671**
Bangladesh	S2	**S21ZG**	**7030 1200Z**	**I672**
Barbados	**8P**	**8P9DX**	**Jan. 23-Feb. 6**	**I667**
Belau	KC6	SS,RR,OK	Feb. 10-28	I670
British Virgins	**VP2V/W2GUP**		**to March 9**	**I670**
Cambodia	XU	XU7VK, others now active		I670
Chad	**TT**	**TT8OBO**	**Mar. 15-Apr.**	**I673**
Cocos Island	**TI9JJP**		**Feb. 14-24**	**I673**
Cocos-Keeling	**VK9CB**		**now-Jan. 31**	**I672**
Cook Islands	**ZK1**	**DLs**	**Feb. 6-15**	**I673**
Crozet	FT	FT4WD	Now	I670
Central Kiribati	**T31AF**		**Now active**	**I673**
Ethiopia	**ET**	**9F2CW**	**Jan. 30+**	**I673**
Gambia	**C56/G3RZ**		**to Feb. 1**	**I670**
Kingman Reef	KH5	NØAFW/	late Feb.	I666
Madagascar	**5R**	**5R8DG**	**28544 14-1500Z**	**I672**
Maldives	**8Q**	**8Q7XX**	**Jan. 19-31**	**I670**
Market Reef	OJØ/	OH3AC	Feb. 24-28	I672
Midway Island	KH4	KD7P/	early 1993?	I669
Montserrat	**VP2MFA**		**Feb. 5-17**	**I668**
Nauru	C2	C21BR	to mid-Apr.	I669
Navassa	KP1	W5IJU	Mar. 26-Apr. 3	I668
Pitcairn Island	**VR6**	**JJ,BB**	**to March**	**I670,3**
Revillagigedo	**XF4**	**XFØC**	**Feb. 18-Mar. 5**	**I673**
Rwanda	9X	9X5AB	now active	I662
San Andrés	HKØ/	AA5AU, KB5GL	Feb. 27+	I667
São Tomé	S9	S92SS	now active	I665
Seychelles	S7	S79MD	now active	I670
Singapore	9V	9V1YU	15M 15-1700Z	I661
Somalia	**T5/**	KH6HBZ	Now	I668/9
Turks & Caicos	**VP5**	**VP5F**	**Feb. 17-23**	**I673**
Wake Island	**KH9/**	**KK4DK**	**Now-Feb. 1**	**I671**
Western Sahara	**SØ**	**SØRASD**	**Feb. 24-Mar. 6**	**I673**

Operating Events and DX Gatherings

Dates	Event	Reference:
Jan. 30-31	Belgium SSB Contest	I667
Jan. 29-31	CQWW 160-Meter CW test	CQ
Feb. 13-14	Spanish RTTY Contest	CQ
Feb. 20-21	ARRL CW DX Contest	QST
Mar. 6-7	ARRL SSB DX Test	QST

Contributors

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Resident Amateurs on Regularly

DXCC Country	Callsign	Freq.	UTC
Ascension Island	ZD8LII	24900	1600Z
Balearic Islands	EA6ZY	10103	2245Z
Bangladesh	S21ZG	7010	12-1300Z
Botswana	A22MN	21025	2000Z
Cambodia	XU5SE	20M CW	1230Z
Djibouti	J28BS	14013	1500Z
Easter Island	XQØYAF	21007±	2100Z
Falkland Islands	VP8VN	21002	2300Z
India	VU2ROI	14015	1200Z
Indonesia	YB6AVE	3510±	2200Z
Jan Mayen	JX7DFA	14007±	10-13, 01Z
Kenya	5Z4FM	18080	1830Z
Kuwait	9K2ZZ	1832	0000Z
Malawi	7Q7XX	7005±	01Z Friday
Malawi	7Q7XX	24895±	1445Z

The DX Bulletin

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DXCC Country	Callsign	Freq.	UTC
Malaysia	9M2AX	3504±	2200Z
Mongolia	JT1BR	14017±	0130Z
Mozambique	C9RJJ	14026	2100Z
Netherland Antilles	PJ9JT	14026	0000Z
Nicaragua	YN/SMØOIG	14025	2330Z
Qatar	A71AL/SP5EXA	10102	1900Z
San Andrés Island	HJØVGJ	21026	2100Z
Somalia	T5/KF6BL	14175±	0000Z
South Shetlands	HFØPOL	14010±	0100Z
South Shetlands	HFØPOL	10102	2300Z
Svalbard	JWØF	14020±	0000Z
Taiwan	BV2TA	40M CW	1200Z
Taiwan	BV4CT	40M CW	1430Z
Tajikistan	UJ8JA	14005	12-1300Z
Thailand	HSØZAR	7005±	12-1400Z
Turkey	TA2BK	10102	2300Z